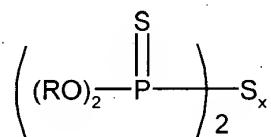


AMENDMENT TO THE CLAIMS

Kindly amend the claims as follows:

1. (Currently Amended) Vulcanizable rubber mixes comprising:
  - a) rubbers,
  - b) O,O-bis-(alkyl)dithiophosphoric acid polysulfides corresponding to the formula



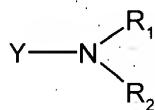
wherein

x represents 2, 3, 4 or 5 and

*Alt*  
*Cont*  
R represents a C<sub>8</sub>-C<sub>12</sub>-alkyl or -cycloalkyl radical

and

- c) primary and/or secondary amines corresponding to the formula



wherein

Y represents hydrogen or a mercaptobenzothiazole radical,

R<sub>1</sub> represents hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>5</sub> or C<sub>6</sub>-cycloalkyl C<sub>7</sub>-C<sub>12</sub>- aralkyl and

R<sub>2</sub> has the same meaning of R<sub>1</sub>,

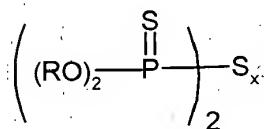
with the proviso that R<sub>1</sub> and R<sub>2</sub> do not simultaneously represent hydrogen,

wherein the components b) and c) are in a molar ratio from (0.5 to 1.5) : 1 and are present in a total amount of from 1 to 10 parts by wt. per 100 parts by wt. of rubbers in the rubber mixes, and

d) 0.5 to 3.0 wt.-% sulfur, based on the rubber.

2. (Currently Amended) Rubber molded products comprising vulcanizable rubber mixes comprising:

- a) rubbers,
- b) O,O-bis-(alkyl)dithiophosphoric acid polysulfides corresponding to the formula



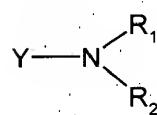
wherein

x represents 2, 3, 4 or 5 and

R represents a C<sub>8</sub>-C<sub>12</sub>-alkyl or -cycloalkyl radical

and

- c) primary and/or secondary amines corresponding to the formula



wherein

Y represents hydrogen or a mercaptobenzothiazole radical,

R<sub>1</sub> represents hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>5</sub> or C<sub>6</sub>-cycloalkyl C<sub>7</sub>-C<sub>12</sub>- aralkyl and

R<sub>2</sub> has the same meaning of R<sub>1</sub>,

with the proviso that R<sub>1</sub> and R<sub>2</sub> do not simultaneously represent hydrogen,

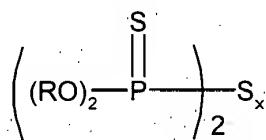
wherein the components b) and c) are in a molar ratio from (0.5 to 1.5) : 1 and are present in a total amount of from 1 to 10 parts by wt. per 100 parts by wt. of rubbers in the rubber mixes, and

d) 0.5 to 3.0 wt.-% sulfur, based on the rubber.

3. (Original) A rubber molded product according to Claim 2, wherein said rubber molded product is selected from the group consisting of tires, hoses, damping components, seals and profiles.

4. (New Claim) A process for preparing vulcanizable rubber mixes according to claim 1 which may be vulcanized with a high crosslink density and a high proportion of short sulfur bridges, which process comprises mixing the rubbers a) with the components b), c) and d).

5. (New Claim) A process for increasing the crosslink density and the proportion of monosulfide sulfur bridges in the vulcanization of a rubber mix comprising a) rubbers and d) 0.5 to 3.0 wt.-% sulfur, based on the rubber, by using a combination of  
b) O,O-bis-(alkyl)dithiophosphoric acid polysulfides corresponding to the formula



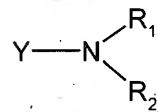
wherein

x represents 2, 3, 4 or 5 and

R represents a C<sub>8</sub>-C<sub>12</sub>-alkyl or -cycloalkyl radical

and

c) primary and/or secondary amines corresponding to the formula



wherein

Y represents hydrogen or a mercaptobenzothiazole radical,

R<sub>1</sub> represents hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>5</sub> or C<sub>6</sub>-cycloalkyl C<sub>7</sub>-C<sub>12</sub>- aralkyl and

R<sub>2</sub> has the same meaning of R<sub>1</sub>,

with the proviso that R1 and R2 do not simultaneously represent hydrogen,

wherein the components b) and c) are in a molar ratio from (0.5 to 1.5) : 1 and are

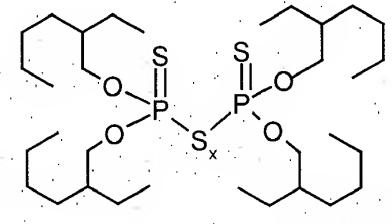
present in a total amount of from 1 to 10 parts by wt. per 100 parts by wt. of rubbers

in the rubber mixes.

*Ans  
Conclu*

6. (New Claim) Vulcanizable rubber mixes according to claim 1, wherein component c) is selected from the group consisting of cyclohexylamine, dicyclohexylamine, and N,N,-dicyclohexyl-2-benzothiazole sulfenamide.

7. (New Claim) Vulcanizable rubber mixes according to claim 1, wherein component b) is a compound of the formula



wherein x is 2 – 5.